Attachment 1 FACILITY DESCRIPTION

This section provides a general description of the Pueblo Chemical Depot (PCD) located in Pueblo County, east of the city of Pueblo, in the southeastern region of Colorado. In accordance with Title 6 Code of Colorado Regulations (CCR) 1007-3 § 100.41(a)(1), Section 1-1, General Description, provides an overview of the PCD hazardous waste management units. Section 1-2, Topographic Map, addresses the PCD topographic map requirements under 6 CCR 1007-3 § 100.41(a)(18). Section 1-3, Location Information, addresses the floodplain location and seismic requirements of 6 CCR 1007-3 § 100.41(a)(11). Section 1-4, Traffic Information, describes the PCD site traffic patterns as required by 6 CCR 1007-3 § 100.41(a)(10).

1-1 GENERAL DESCRIPTION [6 CCR 1007-3 § 100.41(a)(1)]

PCD is a 23,000-acre military installation located east of the City of Pueblo, in the southeastern region of Colorado (**Figure 1-1-1**)¹ in Pueblo County, Colorado. PCD includes a variety of buildings and structures as well as open and undeveloped prairie. Construction of PCD began in 1942 on former cattle grazing land. The original mission of the Depot was storage of munitions and general supplies. PCD was later assigned to rebuild and repair vehicles and weaponry along with demilitarization of ammunition. In 1988, PCD was identified for realignment under the Base Realignment and Closure (BRAC) program. PCD currently stores a portion of the U.S. mustard chemical agent munitions stockpile, and PCD continues to remediate soil and groundwater contamination in preparation for PCD closure.

The PCD Environmental Management Office (EMO) is tasked with compliance of all federal, state, local, and Army environmental laws, rules, and regulations.

This Permit addresses the storage of leaking chemical munitions and other agent-related liquid wastes in RCRA-permitted hazardous waste management units (Igloos G203, G1009, G1107, G1109, and G1110), storage of agent-contaminated solid hazardous waste in a RCRA-permitted hazardous waste management unit (Igloo G1110) and storage of non agent-related hazardous wastes in a RCRA-permitted hazardous waste management unit (Building 540). The permitted hazardous waste management units at PCD are depicted on **Figure 1-1-2**.

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All figures are located at the end of this section.

1-1a Overview of PCD Storage Process

Hazardous wastes have been managed at PCD since October 1980, when the U.S. Environmental Protection Agency (USEPA) Region VIII issued a USEPA Identification Number (EPA ID Number CO8213820725) to PCD. The hazardous wastes stored at PCD are divided into two categories: agent-related wastes and non agent-related wastes. Agent-related wastes include waste chemical munitions and agent-contaminated materials, such as used personal protective equipment (PPE) and spent decontamination solutions. Non agent-related wastes are generated at PCD during environmental remediation activities and industrial support activities such as building and motor vehicle maintenance, small construction projects, and office operations.

Specifically, PCD stores and manages agent-related wastes in RCRA-permitted hazardous waste management units, G203, G1009, G1107, G1109, and G1110 and non agent-related wastes in Building 540. Chemical munitions stored at PCD contain chemical agent mustard (distilled sulfur mustard [HD]/mustard-T mixture [HT]). If an HD or HT chemical munition is suspected to be leaking, the munition is overpacked and stored in one of the RCRA-permitted hazardous waste management units, G203, G1009, G1107, G1109, or G1110. Material such as PPE or dunnage contaminated from handling leaking munitions is stored in RCRA hazardous waste management unit, G1110. Hazardous wastes that are not chemical-agent related, such as wastes generated from environmental remediation activities and industrial support activities, are stored in Building 540 for up to 1 year prior to transfer to an off-site permitted treatment, storage, and disposal facility.

1-1a(1) PCD Primary Process and Support Structures

Six permitted hazardous waste storage units are located at PCD: G203, G1009, G1107, G1109, G1110, and Building 540. G203, G1009, G1107, and G1109 are existing concrete munition storage igloos comprising four walls, floor, and ceiling that are used to store leaking chemical-filled munitions in overpacks pending treatment at a permitted treatment, storage, and disposal facility. G1110 is also an existing concrete munition storage igloo and is used to store material such as PPE or dunnage contaminated from handling leaking munitions, along with leaking chemical-filled munitions in overpacks pending treatment at a permitted treatment, storage, and disposal facility. Building 540 is comprised of four walls, floor, and ceiling that is used to store non agent-related wastes generated in the administrative and warehouse areas and during environmental remediation activities. These wastes may include waste paint and thinners; wastes from the onsite laboratory used to analyze explosives

constituents; waste solvents; waste batteries, battery acid, and contaminated soils from the remediation of Solid Waste Management Units (SWMUs).

1-1b Hazardous Waste Management Units

The hazardous waste management units addressed in this RCRA Permit consist of storage (S01) units. Specifically, these waste management units are:

- Igloos G203, G1009, G1107, G1109, G1110 (container storage S01)
- Building 540 (container storage S01).

In addition to the hazardous waste management units, there may be less than 90-day hazardous waste accumulation areas and satellite accumulation areas at PCD. In accordance with the generator standards of 6 CCR 1007-3, § 262.34, the less than 90-day and satellite accumulation areas are operated and used for temporary accumulation of waste, pending shipment to a permitted treatment, storage, and disposal facility. Because these temporary hazardous waste management units do not require a RCRA permit for operation, they are not discussed in further detail in this Permit. However, these temporary waste accumulation areas are included and maintained in the onsite copy of the PCD contingency plan.

1-1c Hazardous Wastes Managed

Some of the RCRA-permitted hazardous waste management units at PCD are used to store overpacked, leaking munitions that contain HD and HT, along with associated agent-related wastes. Potential agent-related wastes to be stored at PCD will be placed in RCRA-permitted hazardous waste storage units G203, G1009, G1107, G1109, and G1110, and may include the following wastes:

- Wood pallets, metal banding, bolts, and nails
- Plastic bags or plastic shrouding
- Liquid-exposed PPE such as suits, gloves, boots, and tape
- Decontamination solutions

- Sorbents and other spill cleanup materials
- Laboratory waste and sampling debris associated with leaking munitions such as glassware and gloves
- Miscellaneous debris including hoses, meters, rags, and cords
- Soil and sediment.

Potential nonagent-related wastes to be stored at PCD in RCRA-permitted hazardous waste storage unit, Building 540, may include the following waste streams:

- Waste paint and thinners
- Wastes from the onsite restoration laboratory used to analyze explosives constituents
- Waste solvents
- Waste batteries and battery acid
- Contaminated soils, sediment, or water from the remediation of SWMUs
- Spent carbon from groundwater treatment systems
- Used filters from the Interim Corrective Action Groundwater Remediation System (ICAGRS)
- Waste starter fluids
- Used PPE
- Universal wastes such as fluorescent bulbs.



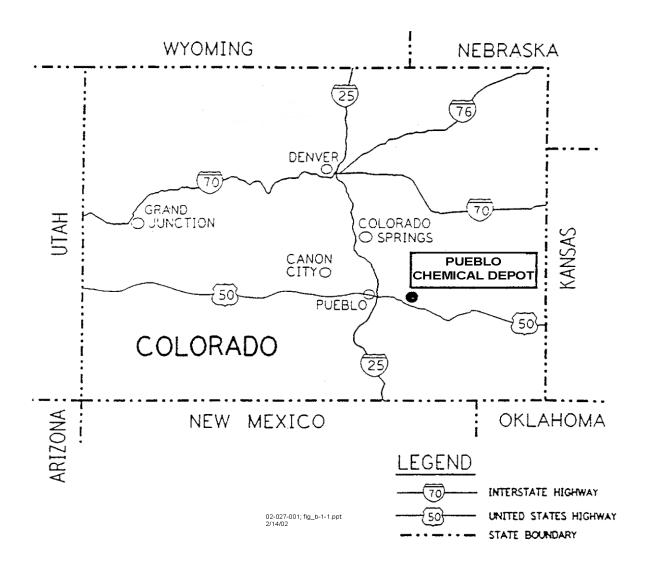


Figure 1-1-1. Location of PCD

Draft PCD RCRA Renewal Permit August 2013 Facility Description

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1-2 TOPOGRAPHIC MAP

1-2a General Requirements [6 CCR 1007-3 § 100.41(a)(18) and 100.41(d)(1)(i)]

A topographic map showing the location of the RCRA hazardous waste management units at PCD is provided as **Figure 1-2-1**¹ and includes a wind rose. An expanded topographic map showing additional topography of PCD, including delineation of the depot, is provided as **Figure 1-2-2**. **Figure 1-2-2** is a U.S. Geological Survey topographic map of North Avondale, Colorado, that depicts PCD. The topography of PCD is flat to gently sloping prairie. The PCD hazardous waste management units G203, G1009, G1107, G1109, and G1110 are located in a relatively flat area approximately 35 feet in elevation above the Arkansas River, which flows along the southern boundary of PCD. PCD hazardous waste management unit Building 540 is also located in a relatively flat area. The Arkansas River flows along the southern boundary of PCD. Elevations of approximately 4,500 feet occur along the Arkansas River, increasing slowly to over 5,000 feet to the west, north, and south.

Figure 1-2-3 shows permitted facilities, surface water, fence lines, and roads and access controls. The figure also depicts the PCD access points. Legal boundaries for PCD and the location of solid waste management units at PCD are also shown on **Figure 1-2-3**.

The PCD hazardous waste management units are located within PCD legal boundaries shown in **Figure 1-1-2**. The PCD hazardous waste management units are not located in a 100-year floodplain. The 100-year floodplain is discussed further in Section 1-3. There are withdrawal and injection wells in the vicinity of the PCD hazardous waste management units as shown on **Figures 1-2-3**, **1-2-3A**, **1-2-3B**, **and 1-2-3C**. Additional wells are depicted as they pertain to remediation areas.

PCD is bordered on the south by the Atchison, Topeka, Santa Fe and the Missouri Pacific Railroad, with the Arkansas River about 1/2 mile further south. Three small creeks, Haynes, Boone, and Chico, traverse PCD and drain southward toward the Arkansas River. Land use surrounding PCD is primarily undeveloped grazing land to the north, west, and east with scattered rural residences. U.S. Highway 50/CO Highway 96, a major east-west highway, is located 1/2 mile south of PCD. The Arkansas River is about 1.5 miles to the south. Four small rural communities (Avondale, North Avondale, Orchard Park, and Boone) are also located within 4 miles of PCD's southern boundary. Other land use south of PCD includes rangeland and cultivated crop and pasture land along the Arkansas River.

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All figures are located at the end of this section.

Draft PCD RCRA Renewal Permit August 2013 Facility Description

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1-3 LOCATION INFORMATION

1-3a Seismic Standard [6 CCR 1007-3 § 100.41(a)(11)(ii) and § 264.18(a)]

The PCD hazardous waste management units (located in Pueblo County) are not located in any of the political jurisdictions listed in 6 CCR 1007-3 § 264 Appendix VI, and there are no political jurisdictions listed for Colorado in the corresponding 6 CCR 1007-3 § 264.18(a) regulation.

Based on published geologic information, the PCD hazardous waste management unit locations meet the state seismic location standards because the site is not located within 1,000 feet of a fault that has had displacement in Holocene time. The PCD hazardous waste management units are located at the southern margin of the Denver Basin within the Great Plains seismotectonic province, east of the southern Rocky Mountains. Known active faults in the region include the M6.8 Cheraw Fault located 41 miles from the site, the M6.9 Rampart Range Fault located 45 miles from the site, and the M7.0 Sangre de Cristo Fault located 76 miles from the site. In general, the region is considered an area of low seismicity. Notable earthquakes occurred in 1870, 1882, 1966, and 1967, with the strongest shaking in the range of a Modified Mercalli Index of V (on a scale of I to XII). This earthquake occurred on December 4, 1870, at a location approximately 19 miles northeast of the site. For the engineering liquefaction evaluation, a peak ground acceleration surface equivalent to 0.16 g and the magnitude 5.79 were used (Geomatrix, 2001).

According to the USGS, the earthquake that affected Southern Colorado in August 2011 occurred in Trinidad, Colorado, approximately 80 miles or 448,800 feet from the PCD hazardous waste management units:

"The shock of 23 August 2011 occurred as the result of normal faulting, at a shallow depth of focus. The preliminary location, depth, and style of faulting for the 2011 earthquake are very similar to the earthquakes in the previously-cited 2001 swarm. The 2001 swarm did not occur on a mapped geologic fault. The north or north-northeast strike of the causative faults of the largest 2001 and 2011 earthquakes are consistent with the east-west extension that has formed the Rio Grande rift to the west of the epicentral region." (USGS http://earthquake.usgs.gov/earthquakes/recenteqsww/Quakes/usc0005idz.php#summary; USGS Preliminary Damage Report of the August 22, 2011 Mw 5.3 Earthquake near Trinidad, CO: http://geosurvey.state.co.us/hazards/Earthquakes/Documents/Preliminary%20Damage%20Report%20of%20the%20Mw%205-3%20Triniadad%20Earthquake.pdf; USGS Magnitude 5.3 – COLORADO 2011 August 23 05:46:19 UTC: http://earthquake.usgs.gov/

<u>earthquakes/recenteqsww/Quakes/usc0005idz.php#summary</u>). No further geologic studies to address the occurrence and age of faulting in the PCD hazardous waste management units vicinity are necessary to fulfill siting requirements.

1-3b Floodplain Standards [6 CCR 1007-3 § 100.41(a)(11)(iii) and (a)(18)(ii)]

The PCD hazardous waste management units will not be located in the 100-year floodplain, according to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map Web site, flood Insurance Rate Map for Pueblo, CO, dated September 29, 1989. **Figure 1-2-1** shows the 100-year floodplain boundary relative to the PCD hazardous waste management units.

PCD is located in the drainage basin of the Arkansas River. PCD occupies about 36 square miles of rolling upland terrain that ranges between 4,550 and 4,800 feet in elevation and slopes southward at about 25 feet per mile. Three creeks drain the installation. Chico Creek, an intermittent stream, drains the western portion. Boone Creek, an ephemeral stream, drains the central portion. Haynes Creek, a perennial stream, drains the eastern portion. The three creeks drain south into the Arkansas River. In **Figure 1-2-1** the shaded areas show special flood hazard areas. None of the PCD hazardous waste management units are located within or near the 100-year floodplain (flood hazard area).

1-4 TRAFFIC INFORMATION [6 CCR 1007-3 § 100.41(a)(10)]

External Access

The entrance road to PCD is an exit off of U.S. Highway 50/CO Highway 96. Although road surfacing and load bearing capacity of U.S. Highway 50/CO Highway 96 is governed by the Colorado Department of Transportation, the approximate one-mile roadway east of the cloverleaf up to the PCD main entrance (southern entrance) is maintained by PCD. This portion of roadway is capable of HS-20 loading: 18,000-pound maximum axle load; 32,000-pound maximum axle group; and 72,000-pound maximum vehicle weight (rating per American Association of State Highway and Transportation Officials). An additional access control point was built on the north end of the installation for access control to the Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP). The access control point serves as a secondary entrance to PCD but is not utilized by traffic to and from the six PCD hazardous waste management units in this Permit. The southern access control point (PCD main entrance) and the access road from the PCD main entrance to the six PCD RCRA-permitted hazardous waste management units is the only access utilized by traffic to and from the six PCD RCRA-permitted hazardous waste management units.

Internal Access

A system of interior roads as well as the approximate one-mile roadway east of the cloverleaf on U.S. Highway 50 that leads to the PCD main entrance (southern entrance) are maintained by PCD. About 170 total miles of roads are present, most of which are gravel-lined or paved and capable of the following highway loading: HS-20 loading: 18,000-pound maximum axle load; 32,000-pound maximum axle group; and 72,000-pound maximum vehicle weight (rating per American Association of State Highway and Transportation Officials). Traffic within the installation is controlled by stop signs.

During an average day, about 300 to 350 cars and trucks pass through the gate. Vehicles are primarily cars, vans, SUVs, pick-up trucks, and semi-trucks.

APPENDIX A

Part A Site Identification Form

Pueblo Chemical Depot Pueblo, Colorado

FO The Sta	ND MPLETED RM TO: e Appropriate ite or Regional ice.			ental Protection Agen		
1.	Reason for Submittal	Reason for Submittal: To provide an Initial Notification for this location)	ı (first time sub	omitting site identification inf	ormation / to obtain an EPA	A ID number
E	MARK ALL BOX(ES) THAT APPLY	 □ To provide a Subsequent Notific □ As a component of a First RCR. □ As a component of a Revised R □ As a component of the Hazardo 	A Hazardous ' RCRA Hazardo	Waste Part A Permit Applica ous Waste Part A Permit App	ation plication (Amendment #)
		Site was a TSD facility and/o >100 kg of acute hazardous LQG regulations)	or generator of	≥1,000 kg of hazardous wa	ste, >1 kg of acute hazardo	ous waste, or e equivalent
2.	Site EPA ID Number	EPA ID Number C O 8 2 1	3 8 2	0 7 2 5		
3.	Site Name	Name: Pueblo Chemical Depot				
4.	Site Location	Street Address: 45825 Highway 96	East			
	Information	City, Town, or Village: Pueblo			County: Pueblo	
		State: Colorado	Country: U	nited States	Zip Code: 81006-93	30
5	Site Land Type	☐ Private ☐ County ☐ Distri	ict 🗵 Fed	eral 🛘 Tribal 🗘 M	Iunicipal	Other
6.	NAICS Code(s)	A . 9 2 8 1 1	0	C		
	for the Site (at least 5-digit codes)	В.		D		
 7.	Site Mailing	Street or P.O. Box: 45825 Highway 9	96 East			
	Address	City, Town, or Village: Pueblo				
		State: Colorado	Country: Ur	nited States	Zip Code : 81006-9330	
8.	Site Contact	First Name: Christopher	MI:	Last: Pulskamp		
	Person	Title: Chief, Environmental Manager	ment Office			
		Street or P.O. Box: 45825 Highway 9	96 East			
		City, Town or Village: Pueblo			was a second and a second a second and a second a second and a second	
		State: Colorado	Country: Ur	nited States	Zip Code: 81006	
		Email: christopher.j.pulskamp.civ@r	mail.mil		T	
		Phone: 719-549-4252	Ext		Fax: 719-549-4503	
9.	Legal Owner	A. Name of Site's Legal Owner: US A	ırmy		Date Became 4/4/1942 Owner:	
	and Operator of the Site	Owner Type: Private County	☐ District	➤ Federal ☐ Tribal	☐ Municipal ☐ State	Other
		Street or P.O. Box: 45825 Highway 9	6 East			
		City, Town, or Village: Pueblo	Ţ		Phone: 719-549-4252	
		State: Colorado	Country: U	nited States	Zip Code: 81006-9330	
		B. Name of Site's Operator: US Army	y		Date Became 4/4/1942 Operator:	
		Operator Type: □ Private □ County	District	⊠ Federal ☐ Tribal	☐ Municipal ☐ State	Other

		ted Waste Activity "No" for all <u>current</u>		ate submitting the	form); com	plete any additional boxes as instructed.
A. Hazardo	us Wa:	te Activities; Com	olete all parts 1-7.			
YXN		enerator of Hazardo "Yes", mark only o	ous Waste ne of the following –	a, b, or c.	Y 🗆 N 🗵	2. Transporter of Hazardous Waste If "Yes", mark all that apply.
	× a.	(2,200 lb Generat accumul lbs./mo) Generat accumul	es, in any calendar mores./mo.) or more of hazes, in any calendar more ates at any time, more of acute hazardous wates, in any calendar mores, in any calendar more /mo) of acute hazardous.	ardous waste; or nth, or than 1 kg/mo (2.2 ste; or nth, or than 100 kg/mo		 a. Transporter b. Transfer Facility (at your site) 3. Treater, Storer, or Disposer of Hazardous Waste Note: A hazardous waste permit is required for these activities. 4. Recycler of Hazardous Waste
	□ b.		,000 kg/mo (220 – 2,20 zardous waste.	0 lbs./mo) of non-		
		hazardo	n 100 kg/mo (220 lbs./i us waste. ite other generator ac		YNX	5. Exempt Boiler and/or Industrial Furnace If "Yes", mark all that apply.a. Small Quantity On-site Burner Exemption
Y D N 🗷		Short-Term Generatime event and not	ator (generate from a sh from on-going processo tion in the Comments s	nort-term or one- es). If "Yes",		b. Smelting, Melting, and Refining Furnace Exemption
Y N N	e.	United States Impo	rter of Hazardous Was	te	$Y \square N \boxtimes$	6. Underground Injection Control
Y 🗆 N 🗵	f.	Mixed Waste (haza	rdous and radioactive)	Generator	Y 🗆 N 🗵	7. Receives Hazardous Waste from Off-site
B. Universa	l Wast	e Activities; Compl	ete all parts 1-2.		C. Used O	il Activities; Complete all parts 1-4.
Y 🗆 N 🖸	₹ 1.	accumulate 5,000	ndler of Universal Wa kg or more) [refer to y	our State	YINX	1. Used Oil Transporter If "Yes", mark all that apply.
			ermine what is regula waste managed at yo ⁄.			☐ b. Transfer Facility (at your site)
Υ□ΝŒ	₹ 2.				Y 🗌 N 🗵	 2. Used Oil Processor and/or Re-refiner If "Yes", mark all that apply. a. Processor b. Re-refiner 3. Off-Specification Used Oil Burner 4. Used Oil Fuel Marketer If "Yes", mark all that apply. a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner b. Marketer Who First Claims the Used
						Oil Meets the Specifications

EPA ID Number	C O 8 2	1 3 8 2 0	7 2 5	ОМВ	#: 2050-0024; Ex	pires 11/30/2011
	lemic Entities with I uant to 40 CFR Part		cation for opting in	to or withdrawing fr	om managing labo	ratory hazardous
	<u>ust</u> check with your Si bpart K	tate to determine if yo	ou are eligible to man	age laboratory hazar	dous wastes pursua	nt to 40 CFR Part
See the it	em-by-item instruct	ng under 40 CFR Par ions for definitions	t 262 Subpart K for th of types of eligible	ne management of ha academic entities. I	zardous wastes in la Mark all that apply:	aboratories
	ege or University					
	- ·			n agreement with a co		
☐ c. Non	-profit Institute that is	owned by or has a fo	ormal written affiliatio	n agreement with a c	ollege or university	
2. Withdrawi	ng from 40 CFR Part	262 Subpart K for the	e management of ha	zardous wastes in lab	oratories	
11. Description o	of Hazardous Waste					
A. Waste Codes your site. Lis spaces are no	t them in the order th	lated Hazardous Wa ey are presented in the	astes. Please list the he regulations (e.g., l	e waste codes of the F D001, D003, F007, U	Federal hazardous w 112). Use an additio	rastes handled at onal page if more
D001	D002	D003	D004	D005	D006	D007
D008	D009	D010	D011	D012	D013	D014
D015	D016	D017	D018	D019	D020	D021

D001	D002	D003	D004	D005	D000	D007
D008	D009	D010	D011	D012	D013	D014
D015	D016	D017	D018	D019	D020	D021
D022	D023	D024	. D025	D026	D027	D028
D029	D030	D031	D032	D033	D034	D035
D036	D037	D038	D039	D040	D041	D042
D043	F001	F002	F003	F004	F005	F039
K047	U002	U044	U154			

B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes. Please list the waste codes of the State-Regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.

P909	P910	K901	K902		
	·				
		AAA	***	 24-101	<u>, </u>
		A			

12. No	otificat	ion of Hazardous Secondary Mater	ial (HSM) Activity	
Y 🗖	Ν×		.42 that you will begin managing, are managin 61.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25	
		If "Yes", you <u>must</u> fill out the Addend Material.	um to the Site Identification Form: Notification	for Managing Hazardous Secondary
13. Co	ommer	its		
·	,	41411		
			AL AND CONTROL OF THE PARTY OF	
		A STATE OF THE STA		
			AAA	
ac on inf pe	cordan my inc formation enalties	ce with a system designed to assure uiry of the person or persons who ma on submitted is, to the best of my know for submitting false information, inclu	at this document and all attachments were prepared that qualified personnel properly gather and expanage the system, or those persons directly rewiedge and belief, true, accurate, and complet ding the possibility of fines and imprisonment for the light owner(s) and operator(s) must sign (see 40 cm.)	valuate the information submitted. Based sponsible for gathering the information, the e. I am aware that there are significant for knowing violations. For the RCRA
		legal owner, operator, or an epresentative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
~	Harl	(Operator)	LTC Timothy M. Greenhaw	12-17-13
	J		Commander PCD	
	L.	Owner)	LTC Timothy M. Greenhaw	12-17-13
	0		Commander PCD	

		mbe	

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Facility Permit Contact											Last Name:			
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	F	Pho:	ne:	71	9-5	49-4	125	2						Ext.: christopher.j.pulskamp.civ@mail.mil
2. Facility Permit Contact Mailing	9	Stre	et o	r P.	О. В	ox:	45	825	Hiç	ghw	ay !	96 E	as	ast
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	(Cou	ntry	: '	Jnit	ed (Stat	es						Zip Code: 81006-9330
Operator Mailing Address and	5	Stre	et o	r P.	Э. В	ox:	45	825	5 Hi	ghw	ay	96 I	Ξas	ast
Telephone Number	C	City,	Τον	wn,	or V	/illa	ge:	Pu	ebl	0				
	S	State	e: (Col	orac	ob								Phone:
		oui	ntry	: L	Jnite	ed S	State	es						Zip Code: 81006-9330
4. Facility Existence Date	F	acil	lity l	Exis	ten	се С	ate	(mı	n/de	d/yy	уу):		4/0	04/1942
5. Other Environmenta	ıl Pe	ermi	its											
A. Facility Type (Enter code)					В. І	Peri	nit l	Nun	ıber	•				C. Description
Р	С	0	9	5	Р	В	9	0	1					Clean Air Act (Air Quality)
R	С	0	0	4	-	0	7	-	0	1	-	0	1	1 RCRA RD&D permit (PCAPP)
N	С	0	0	0	3	4	6	7	3					Clean Water Act (Water Quality)
E	0	4	Р	В	0	9	4	9	L					PCD Air Land Development Permit
E	0	4	Р	В	0	8	2	2						PCAPP Air Construction Permit
Е	2	0	0	4	0	0	1							PCAPP Pueblo Co. Certificate of Designation-Phase I
E	2	0	0	4	0	0	2							PCAPP Pueblo Co. Certificate of Designation-Phase II
N .	С	0	R	1	0	0	0	0	F		•			PCAPP NPDES General Permit Storm Water Discharges from Construction Activities
E	1	0	Р	В	1	0	7	5						PCAPP Air Permit
E	Е	S	1	0	4	1	8	3	1					PCAPP Sanitary System Site Location Approval
E	2	0	0	1	0	0	8							PCAPP Pueblo Co. Certificate of Designation
R														RCRA Part A Application for PCD Chemical Weapons Stockpile filed Solely as a matter of comity, 27 July 2005.
6. Nature of Business:			l											

The primary mission of the Pueblo Chemical Depot is to safely store chemical agent munitions.

G1110, G203, and nonchemical agent-related wastes in Building 540.

This permit application renewal addresses the storage of chemical agent-related wastes in G1009, G1107, G1109,

EPA ID Number

7. Process Codes and Design Capacities - Enter information in the Section on Form Page 3

- A. <u>PROCESS CODE</u> Enter the code from the list of process codes below that best describes each process to be used at the facility. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in Item 8.
- B. PROCESS DESIGN CAPACITY For each code entered in Item 7.A; enter the capacity of the process.
 - 1. <u>AMOUNT</u> Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.
 - 2. <u>UNIT OF MEASURE</u> For each amount entered in Item 7.B(1), enter the code in Item 7.B(2) from the list of unit of measure codes below that describes the unit of measure used. Select only from the units of measure in this list.
- C. PROCESS TOTAL NUMBER OF UNITS Enter the total number of units for each corresponding process code.

Process Code	Process	Proces	ite Unit of Measure for ss Design Capacity	Process Code	Proce		Appropriate Unit of Measure for Process Design Capacity
		posal			eatment (Contin	ued)	(for T81 – T94)
D79	Underground Injection Well Disposal	Liters Per D	,	T81	Cement Kiln		Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per
D80	Landfill		lectares-meter; Acres; rs; Hectares; Cubic	T82	Lime Kiln		Day; Metric Tons Per Hour; Short Tons Per Day; BTU Per Hour; Liters Per Hour;
D81	Land Treatment	Acres or He	ectares	T83	Aggregate Kiln		Kilograms Per Hour; or Million BTU Per Hour
D82	Ocean Disposal	Gallons Per	Day or Liters Per Day	T84	Phosphate Kiln		 -
D83	Surface Impoundment Disposal	Gallons; Lit Cubic Yard	ers; Cubic Meters; or s	T85	Coke Oven		
D99	Other Disposal	Any Unit of	Measure Listed Below	T86	Blast Furnace		
	Sto	rage		T87	Smelting, Meltir	ng, or Refining	g Furnace
S01	Container	Gallons; Lit Cubic Yard	ers; Cubic Meters; or s	Т88	Titanium Dioxid	e Chloride Ox	xidation Reactor
S02	Tank Storage	Gallons; Lite Cubic Yard:	ers; Cubic Meters; or s	Т89	Methane Reform	ning Furnace	•
S03	Waste Pile		s or Cubic Meters	T90	Pulping Liquor f	-	
S04	Surface Impoundment	Cubic Yard		T91	Combustion De Sulfuric Acid	vice Used in t	the Recovery of Sulfur Values from Spent
S05	Drip Pad	Hectares; o	ers; Cubic Meters; r Cubic Yards	T92	Halogen Acid F	urnaces	
S06	Containment Building Storage	Cubic Yard	s or Cubic Meters	T93	Other Industrial	Furnaces Lis	sted in 40 CFR 260.10
S99	Other Storage	Any Unit of	Measure Listed Below	T94	Containment Bu Treatment	uilding	Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per
	Trea	tment		1			Hour; BTU Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per
T01	Tank Treatment		Day; Liters Per Day				Hour; Metric Tons Per Day; Milograms Per Day; Liters Per Day; Metric Tons Per Day; Metric Tons Per
T02	Surface Impoundment	Gallons Per	Day; Liters Per Day				Hour; or Million BTU Per Hour
T03	Incinerator	Short Tons	Per Hour; Metric Tons			Miscellaneo	us (Subpart X)
. ••		Per Hour, G Per Hour, B	iallons Per Hour; Liters TUs Per Hour; Pounds hort Tons Per Day;	X01	Open Burning/C Detonation)pen	Any Unit of Measure Listed Below
		Kilograms F	Per Hour; Gallons Per Tons Per Hour; or	X02	Mechanical Pro-	cessing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; Kilograms Per Hour; Gallons Per Hour; Liters Per
T04	Other Treatment	Pounds Per Hour; Kilogr	Day; Liters Per Day; Hour; Short Tons Per ams Per Hour; Metric ay; Short Tons Per Day;	X03	Thermal Unit		Hour; or Gallons Per Hour; Liters Per Hour; or Gallons Per Day Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour;
		BTUs Per H	lour; Gallons Per Day; our; or Million BTU Per				Kilograms Per Hour, Metric Tons Per Day; Metric Tons Per Hour, Short Tons Per Day; BTU Per Hour, or Million BTU
T80	Boiler		ers; Gallons Per Hour; our; BTUs Per Hour; or Per Hour	X04	Geologic Repos	itory	Per Hour Cubic Yards; Cubic Meters; Acre-feet; Hectare-meter; Gallons; or Liters
			•	X99	Other Subpart X	(Any Unit of Measure Listed Below
Unit of Me	easure Unit of Me	asure Code	Unit of Measure	<u> </u>	leasure Code	Unit of Mea	asure Unit of Measure Code
Gallons		G	Short Tons Per Hour		D		lsY
	er Hour		Short Tons Per Day				ers C B
	er Day		Metric Tons Per Hour. Metric Tons Per Day				А
	Hour		Pounds Per Hour				Q
	Day		Kilograms Per Hour		X		eterF
	-		Million BTU Per Hour .			BTU Per Ho	ourl

7. Process Codes and Design Capacities (Continued)

EXAMPLE FOR COMPLETING Item 7	(shown in line number X-1 below)	: A facility has a storage	tank, which can hold 533.788 gallons.

		Α	. Proc		B. PROCESS DESIGN CAI	PACITY	C. Process Total	For Off	Ficial II	e Only	,			
Nur	Line Number	(From list above)			(1) Amount (Specify)	(2) Unit of Measure	Number of Units	For Official Use Only						
X	1	s	0	2	533.788	G	001							
	1	S	0	1	13,200	G	001							
	2	S	0	1	330	G	001							
	3	S	0	1	330	G	001							
	4	S	0	1	330	G	001							
	5	S	0	1	7,920	G	001							
	6	S	0	1	330	G	001							
	7													
	8													
	9													
1	0													
1	1													
1	2													
1	3													

Note: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the line sequentially, taking into account any lines that will be used for "other" process (i.e., D99, S99, T04, and X99) in Item 8.

8. Other Processes (Follow instructions from Item 7 for D99, S99, T04, and X99 process codes)

Li Nun	ne nber			[B. PROCESS DESIGN CAPACITY							
(Ente	r #s in ence em 7)	(Fro	ocess m list a	Code bove)	(1) Amount (Specify)	(2) Unit of Measure	C. Process Total Number of Units	*.	For O	fficia	l Use	Only
Х	2	Т	0	4	100.00	U	001		-			
N	А											

9. Description of Hazardous Wastes - Enter Information in the Sections on Form Page 5

- A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR Part 261, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in Item 9.A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in Item 9.A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in Item 9.B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	Р	KILOGRAMS	К
TONS	Т	METRIC TONS	М

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure, taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in Item 9.A, select the code(s) from the list of process codes contained in Items 7.A and 8.A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all listed hazardous wastes.

For non-listed waste: For each characteristic or toxic contaminant entered in Item 9.A, select the code(s) from the list of process codes contained in Items 7.A and 8.A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- 1. Enter the first two as described above.
- 2. Enter "000" in the extreme right box of Item 9.D(1).
- 3. Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 9.E.
- 2. PROCESS DESCRIPTION: If code is not listed for a process that will be used, describe the process in Item 9.D(2) or in Item 9.E(2).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in Item 9.A. On the same line complete Items 9.B, 9.C, and 9.D by estimating the total annual quantity of the waste and describing all the processes to be used to store, treat, and/or dispose of the waste.
- 2. In Item 9.A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In Item 9.D.2 on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING Item 9 (shown in line numbers X-1, X-2, X-3, and X-4 below) – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Li	A. EPA Hazardous Waste No.			A mazardous	B. Estimated Annual	C. Unit of	D. PROCESSES								ES		
	nber		wast Enter)			Qty of Waste			(1) P	ROC	ESS (CODE	S (E	nter (Code)		(2) PROCESS DESCRIPTION (If code is not entered in 9.D(1))
Х	1	К	0	5	4	900	Р	Т	0	3	D	8	0				
Х	2	D	0	0	2	400	Р	Т	0	3	D	8	0				
Х	3	D	0	0	1	100	Р	Т	0	3	D	8	0				
Х	4	D	0	0	2												Included With Above

******	1		EPA H	Hazard	lous	B. Estimated	. Use addition C. Unit of	D. PROCESSES								
Line N	umber	(te No. code)		Annual Qty of Waste	Measure (Enter code)		(1) P	ROC	ESS	CODE	S (Er	nter (Code)	(2) PROCESS DESCRIPTION (If code is not entered in 9.D(1)
	1	D	0	0	1	20.25	T	S	0	1						Mustard agent-related was
	2	D	0	0	2											(including DOT bottles)
	3	D	0	0	3											Included with above
	4	D	0	0	4											Included with above
	5	D	0	0	5											Included with above
	6	D	0	0	6											Included with above
	7	D	0	0	7											Included with above
	8	D	0	0	8											Included with above
	9	D	0	0	9											Included with above
1	0	D	0	1	0											Included with above
1	1	D	0	1	1											Included with above
1	2	D	0	2	2		-									Included with above
1	3	D	0	2	8											Included with above
1	4	D	0	2	9		**************************************									Included with above
1	5	D	0	3	0											Included with above
1	6	D	0	3	4					····						Included with above
1	7	D	0	3	9								-			Included with above
1	8	D	0	4	0											Included with above
1	9	D	0	4	3											Included with above
2	0	K	9	0	1		(1									Included with above
2	1	Р	9	0	9											Included with above
2	2	Р	9	1	0				:							Included with above
2	3	D	0	0	1	2300	Р	S	0	1						Agent-related secondary
2	4	D	0	0	2											waste
2	5	D	0	0	3											Included with above
2	6	D	0	0	4											Included with above
2	7	D	0	0	5											Included with above
2	8	D	0	0	6											Included with above
2	9	D	0	0	7											Included with above
3	0	D	0	0	8											Included with above
3	1	D	0	0	9											Included with above
3	2	D	0	1	0											Included with above
3	3	D	0	1	1											Included with above
3	4	D	0	2	2											Included with above
3	5	D	0	2	8											Included with above
3	6	D	0	2	9											Included with above

		A.		lazaro		B. Estimated Annual Qty of Waste	C. Unit of	D. PROCESSES								
Line M	Number	(te No. code)			Measure (Enter code)		(1) P	ROC	ESS	CODE	ES (Er	iter Code))	(2) PROCESS DESCRIPTION (If code is not entered in 9.D
	1	D	0	3	4											Included with above
	2	D	0	3	7											Included with above
	3	D	0	3	9											Included with above
	4	D	0	4	0											Included with above
	5	D	0	4	3											Included with above
	6	K	9	0	2											Included with above
	7	Р	9	0	9											Included with above
	8	Р	9	1	0											Included with above
	9	D	0	0	1	500	Р	S	0	1						PCD Tox Chem Lab Was
1	0	D	0	0	2											Included with above
1	1	F	0	0	3											Included with above
1	2	K	9	0	2											Included with above
1	3	Р	9	0	9											Included with above
1	4	Р	9	1	0											Included with above
1	5	D	0	0	2	100	Р	S	0	1						Waste Decon Solution
1	6	D	0	0	4											Included with above
1	7	D	0	0	5											Included with above
1	8	D	0	0	6											Included with above
1	9	D	0	0	7											Included with above
2	0	D	0	0	8											Included with above
2	1	D	0	0	9											Included with above
2	2	D	0	1	0											Included with above
2	3	D	0	1	1											Included with above
2	4	D	0	2	2		****									Included with above
2	5	D	0	2	8											Included with above
2	6	D	0	2	9											Included with above
2	7	D	0	3	4											Included with above
2	8	D	0	3	9											Included with above
2	9	D	0	4	0		-									Included with above
3	0	D	0	4	3											Included with above
3	1	K	9	0	2											Included with above
3	2	D	0	0	4	15000	T	s	0	1						Nonagent-related waste
3	3	D	0	0	5						-					(contaminated soils and
3	4	D	0	0	6											groundwater from
3	5	D	0	0	7										†	remediation)
3	6	D	0	0	8											Included with above

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9. 🏻			A. EPA Hazardous			B. Estimated	C. Unit of	D. PROCESSES						
Line l	Number			te No. code)		Annual Qty of Waste	Measure (Enter code)	(1) F	ROCE	ss co	ODES (E	nter (Code)	(2) PROCESS DESCRIPTION (If code is not entered in 9.D(1))
	1	D	0	0	9									Included with above
	2	D	0	1	0									Included with above
	3	D	0	1	1									Nonagent-related waste
	4	D	0	1	2									(contaminated soils and
	5	D	0	1	3									groundwater from
	6	D	0	1	4		-							remediation)
	7	D	0	1	5		·							Included with above
	8	D	0	1	6									Included with above
	9	D	0	1	7									Included with above
1	0	D	0	1	8									Included with above
1	1	D	0	1	9									Included with above
1	2	D	0	2	0									Included with above
1	3	D	0	2	1									Included with above
1	4	D	0	2	2									Included with above
1	5	D	0	2	3									Included with above
1	6	D	0	2	4									Included with above
1	7	D	0	2	5									Included with above
1	8	D	0	2	6									Included with above
1	9	D	0	2	7									Included with above
2	0	D	0	2	8									Included with above
2	1	D	0	2	9									Included with above
2	2	D	0	3	0									Included with above
2	3	D	0	3	1									Included with above
2	4	D	0	3	2									Included with above
2	5	D	0	3	3									Included with above
2	6	D	0	3	4									Included with above
2	7	D	0	3	5									Included with above
2	8	D	0	3	6									Included with above
2	9	D	0	3	7									Included with above
3	0	D	0	3	8									Included with above
3	1	D	0	3	9								-	Included with above
3	2	D	0	4	0									Included with above
3	3	D	0	4	1									Included with above
3	4	D	0	4	2									Included with above
3	5	D	0	4	3									Included with above
3	6	F	0	0	1					+				Included with above

			EPA I	Hazaro	lous	B. Estimated Annual	C. Unit of			,					PROCE	
Line N	Number			te No. code)		Qty of Waste	Measure (Enter code)		(1) P	ROC	ESS	CODE	ES (E	nter C	ode)	(2) PROCESS DESCRIPTION (If code is not entered in 9.D(1))
	1	F	0	0	2		•									Nonagent-related waste
	2	F	0	0	3											(contaminated soils and
	3	F	0	0	4											groundwater from
	4	F	0	0	5											remediation)
	5	F	0	3	9											Included with above
***************************************	6	Κ	0	4	7											Included with above
	7	K	9	0	2										·	Included with above
	8	Р	9	0	9											Included with above
	9	Р	9	1	0											Included with above
1 .	0	F	0	3	9	3750	Р	S	0	1						SVE Filtration, Knockout
1	1															water and LNAPL
1	2	F	0	3	9	2000	Р	s	0	1						Groundwater remediation
1	3															filters
1	4	D	0	0	1	600	Р	S	0	1						PCD Analytical Lab waste
1	5	D	0	0	2											(for restoration prog)
1	6	F	0	0	3		AAAWANA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA									Included with above
1	7	F	0	0	5											Included with above
1	8	U	1	5	4	·										Included with above
1	9	D	0	0	2	800	Р	S	0	1						Acetic acid
2	0	D	0	0	1	120	Р	S	0	1						Hexane
2	1	D	0	2	2	90	Р	S	0	1						Chloroform
2	2	U	0	4	4											Included with above
2	3	D	0	0	1	35	P ·	s	0	1						Isopropyl alcohol
2	4	D	0	0	2	420	Р	S	0	1						Sulfuric acid
2	5	D	0	0	1	2600	Р	S	0	1						Calcium and high-test
2	6												-			hypochlorite
2	7	D	0	0	1	300	Р	S	0	1						Enamel paints
2	8	D	0	3	5											Included with above
2	9	D	0	0	1	280	Р	S	0	1						Acetone
3	0	F	0	0	3											Included with above
3	1	U	0	0	2											Included with above
3	2	D	0	0	2	800	P	S	0	1						Batteries
3	3	D	0	0	6											Included with above
3	4	D	0	0	8		•				·····					Included with above
3	5	D	0	0	9											Included with above
3	6	D	0	0	1	1500	Р	s	0	1						Paint thinner

EPA ID Number

			EPA H	łazard	lous	B. Estimated Annual Qty of Waste C. Unit of Measure (Enter code)	al sheet(s) as necessary; number pages as 5a, etc.) D. PROCESSES										
Line N	Number	(te No. code)			i e	(1) PROCESS CODES (Enter Code)								ı	(2) PROCESS DESCRIPTION (If code is not entered in 9.D(
	1	D	0	1	8												Included with above
	2	D	0	0	1	200	P	S	0	1							Spray enamels and lacquer
	3	D	0	0	9	500	Р	S	0	1							Mercury-containing
	4																lighting waste
	5	D	0	0	2	500	Р	S	0	1							Lead-acid batteries
	6	D	0	0	8												Included with above
	7	D	0	0	1	10	Р	S	0	1							Starting fluid
	8	D	0	0	3	10	Р	S	0	1							Phosphate standard
	9																
1	0																
1	1	***															
1	2												 				
1	3																
1	4																
1	5																
1	6																
1	7																
1	8						•										
1	9					:											
2	0													•			
2	1																
2	2																
2	3									*******							
2	4	•															
2	5						(
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2	7																
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2	9	 .														<u> </u>	
3	0																
3	1																
3	2																
3	3													l			
3	4																
3	5	-						-									
3	6														····		

10. Map

Attach to this application a topographical map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all spring, rivers, and other surface water bodies in this map area. See instructions for precise requirements.

11. Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

12. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, and disposal areas; and sites of future storage, treatment, or disposal areas (see instructions for more detail).

13. Comments

Part 9

Pages 5 through 5d of 6 include waste codes and estimated annual quantities of wastes stored in PCD Hazardous Waste Management Units. Specifically, PCD is currently permitted to store the following.

RCRA permitted Hazardous Waste Management Unit Building 540 is permitted to store wastes carrying the following hazardous waste codes:

D001	D002	D003	D004	D005
D006	D007	D008	D009	D010
D011	D012	D013	D014	D015
D016	D017	D018	D019	D020
D021	D022	D023	D024	D025
D026	D027	D028	D029	D030
D031	D032	D033	D034	D035
D036	D037	D038	D039	D040
D041	D042	D043	F001	F002
F003	F004	F005	F039	K047
U002	U044	U154		

RCRA permitted Hazardous Waste Management Units G1009, G1107, G1109, G1110, and G203 are permitted to store wastes that carry the following hazardous waste codes:

P909	P910	K901	K902
D001	D002	D003	D004
D005	D006	D007	D008
D009	D010	D011	D022
D028	D030	D034	D037
D039	D040	D043	

Part 10, Map.

See topographic map(s) provided in Section B of the RCRA permit application.

Part 11 and 12 Facility Drawing.

See facility drawings in Section B of the RCRA permit application.